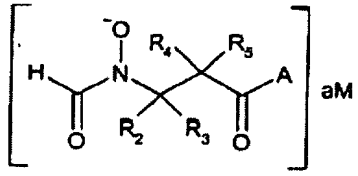
Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the specification:

Listing of Claims:

1. (original) A crystalline salt of formula (1):



(I)

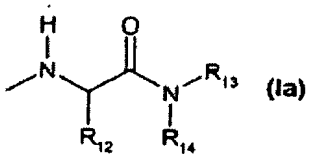
wherein

M is a mono- or di-valent metal;

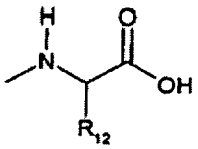
a is ½ or 1;

each of R_2, R_3, R_4 and R_5, independently, is hydrogen or an aliphatic group, or (R_2 or R_3) and (R_4 or R_5), collectively, form a C_4-C_7cycloalkyl;

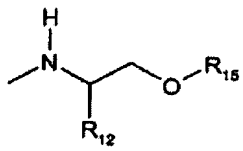
A is of the formula (Ia), (Ib), (Ic), (Id) or (Ie)



(Ia)

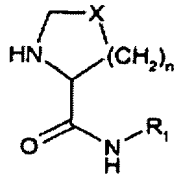


(Ib)



(Ic)

(Id)



(Ie)

wherein

R_{12} is the side-chain of a natural or a non-natural alpha amino acid;

R_{13} and R_{14}, independently, represent hydrogen, or optionally substituted C_1-C_8alkyl, cycloalkyl, aryl, aryl(C_1-C_6alkyl), heterocyclic or heterocyclic(C_1-C_6alkyl);

R_{15} is hydrogen, C_1-C_6alkyl or an acyl group;

X is $-CH_2-$, -S-, ,-CH(OH)-, -CH(OR)-, -CH(SH)-, -CH(SR)-, $-CF_2-$, -C=N(OR) - or -CH(F)-, wherein R is alkyl;

R_1 is aryl or heteroaryl; and

n is 0-3, provided that when n is 0, X is $-CH_2-$.

2. (original) The crystalline salt of Claim 1, wherein A is formula (Ie).

3. (currently amended) The crystalline salt of Claim ~~3~~ 2,

wherein

a is ½;and

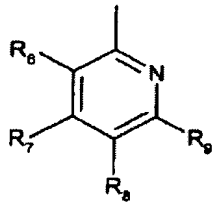
M is Ca, Zn or Mg.

4. (currently amended) The crystalline salt of Claim 2 ~~or 3,~~

wherein

A is of formula (Ie); and

R_1 is a heteroaryl of formula (II.1)



(II.1)

wherein

R_6, R_7 and R_9 are hydrogen; and

R_8 is methyl or trifluoromethyl; or

R_6, R_7 and R_8 are hydrogen; and

R_9 is fluoro; or

R_6, R_8 and R_9 are hydrogen; and

R_7 is ethyl or methoxy; or

R_7, R_8 and R_9 are hydrogen; and

R_6 is hydroxy; or

R_7 and R_8 are hydrogen;

R_6 is methoxy; and

R_9 is methyl.

5. (original) The crystalline salt of Claim 4,

wherein

R_6, R_8 and R_9 are hydrogen; and

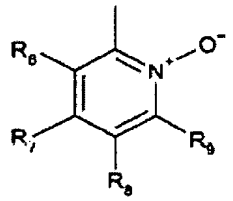
R_7 is ethyl.

6. (currently amended) The crystalline salt of Claim 2 ~~or 3~~,

wherein

A is of formula (Ie); and

R_1 is of the formula (III.1)



(III.1)

wherein

R_6, R_7 and R_9 are hydrogen; and

R_8 is fluoro or trifluoromethyl; or

R_6, R_8 and R_9 are hydrogen; and

R_7 is ethyl.

7. (original) The crystalline salt of Claim 6,

wherein

R_6, R_7 and R_9 are hydrogen; and

R_8 is fluoro.

8. (original) The crystalline salt of Claim 7,

wherein

a is ½; and

M is Ca, Zn or Mg.

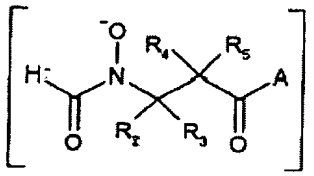
9. (original) The crystalline salt of Claim 1, containing at least 2% water.

10. (original) The crystalline salt of Claim 1, containing about 8% water to about 9% water.

11. (original) The crystalline salt of Claim 1, wherein the X-ray powder diffraction pattern comprises crystalline peaks with 2-theta angles (Cu-K_α radiation) at least five of the following positions:
6.8 ± 0.1, 13.7 ± 0.1, 12.2 ± 0.1, 14.5 ± 0.1, 15.2 ± 0.1, 18.1 ± 0.1, 20.6 ± 0.1, 22.0 ± 0.1, 22.4 ± 0.1, 24.5 ± 0.1 and 30.9 ± 0.1.

12. (original) A hydrated crystalline magnesium salt of 1-{2-*R*-[(formyl-hydroxy- amino)-methyl]-hexanoyl}-pyrrolidine-2-*S*-carboxylic acid (5-fluoro-1-oxy- pyridin-2-yl)-amide, in particular a corresponding tetrahydrate salt.

13. (original) A process for preparing a crystalline salt of the formula (I)



(I)

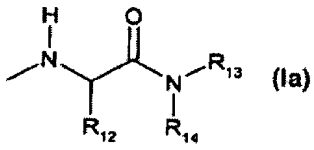
wherein

M is a mono- or di-valent metal;

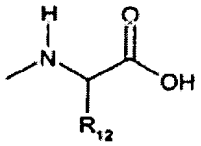
a is ½ or1;

each of R_2, R_3, R_4 and R_5, independently, is hydrogen or an aliphatic group, or (R_2 or R_3) and (R_4 or R_5), collectively, form a C_4-C_7cycloalkyl;

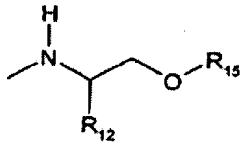
A is of the formula (Ia), (Ib), (Ic), (Id) or (Ie)



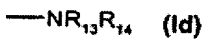
(Ia)



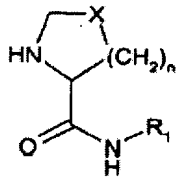
(Ib)



(Ic)



(Id)



(Ie)

wherein

R_{12} is the side-chain of a natural or a non-natural alpha amino acid;

R_{13} and R_{14}, independently, represent hydrogen, or optionally substituted C_1-C_8alkyl, cycloalkyl, aryl, aryl(C_1-C_6alkyl), heterocyclic or heterocyclic(C_1-C_6alkyl);

R_{15} is hydrogen, C_1-C_6alkyl or an acyl group;

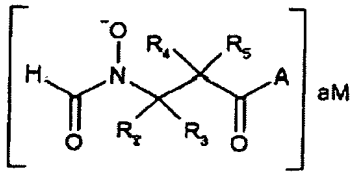
X is -CH_2-, -S-, -CH(OH)-, -CH(OR)-, -CH(SH)-, -CH(SR)-, -CF_2-, -C=N(OR)- or--CH(F)-, wherein R is alkyl;

R_1 is aryl or heteroaryl; and

n is 0-3, provided that when n is 0, X is -CH_2-;

comprising dissolving the amorphous, non-salt form of the compound of formula (I) in a suitable solvent, contacting the dissolved compound with a base and with a metal salt, under conditions suitable to form the desired crystalline salt of formula (I).

14. (original) A method for treating and/or preventing an infectious disorder in a subject, comprising administering to the subject an effective amount of a crystalline salt of formula (I):



(I)

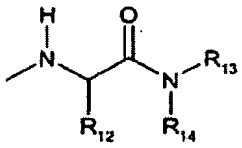
wherein

M is a mono- or di-valent metal;

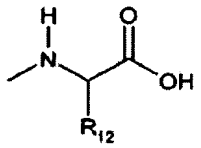
a is ½ or 1;

each of R_2, R_3, R_4 and R_5, independently, is hydrogen or an aliphatic group, or (R_2 or R_3) and (R_4 or R_5), collectively, form a C_4-C_7cycloalkyl;

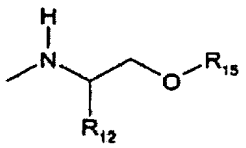
A is of the formula (Ia), (Ib), (Ic), (Id) or (Ie)



(Ia)

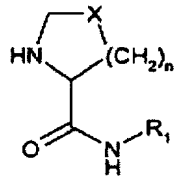


(Ib)



(Ic)

(Id)



(Ie)

wherein

R_{12} is the side-chain of a natural or a non-natural alpha amino acid;

R_{13} and R_{14}, independently, represent hydrogen, or optionally substituted C_1-C_8alkyl, cycloalkyl, aryl, aryl(C_1-C_6alkyl), heterocyclic or heterocyclic(C_1-C_6alkyl);

R_{15} is hydrogen, C_1-C_6alkyl or an acyl group;

X is $-CH_2-$, -S-, ,-CH(OH)-, -CH(OR)-, -CH(SH)-, -CH(SR)-, $-CF_2-$, -C=N(OR) - or -CH(F)-, wherein R is alkyl;

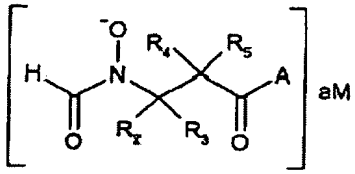
R_1 is aryl or heteroaryl; and

n is 0-3, provided that when n is 0, X is $-CH_2-$;

or a prodrug thereof.

15. (original) The method of Claim 14, comprising co-administration of a therapeutically effective amount of the crystalline salt of formula (I), or a prodrug thereof, and a second therapeutic agent.

16. (original) A pharmaceutical composition comprising a crystalline salt of formula (I),



(I)

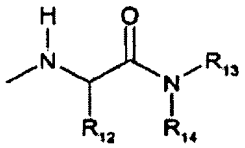
wherein

M is a mono- or di-valent metal;

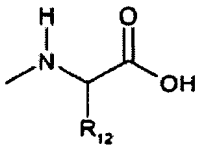
a is ½ or 1;

each of R_2, R_3, R_4 and R_5, independently, is hydrogen or an aliphatic group, or (R_2 or R_3) and (R_4 or R_5), collectively, form a C_4-C_7cycloalkyl;

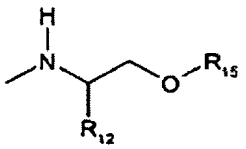
A is of the formula (Ia), (Ib), (Ic), (Id) or (Ie)



(Ia)

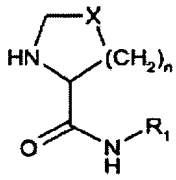


(Ib)



(Ic)

(Id)



(Ie)

wherein

R_{12} is the side chain of a natural or a non-natural alpha amino acid;

R_{13} and R_{14}, independently, represent hydrogen, or optionally substituted C_1-C_8alkyl, cycloalkyl, aryl, aryl(C_1-C_6alkyl), heterocyclic or heterocyclic(C_1-C_6 alkyl);

R_{15} is hydrogen, C_1-C_6alkyl or an acyl group;

X is -CH_2-, -S-, ,-CH(OH)-, -CH(OR)-, -CH(SH)-, -CH(SR)-, -CF_2-, -C=N(OR)- or -CH(F)-, wherein R is alkyl;

R_1 is aryl or heteroaryl; and

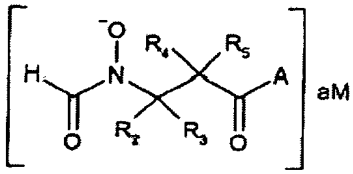
n is 0-3, provided that when n is 0, X is -CH_2-;

or a prodrug thereof,

in association with a pharmaceutically acceptable diluent or carrier therefor.

17. (original) A composition according to claim 16 further comprising a second therapeutic agent.

18. (original) Use of a crystalline salt of formula (I):



(I)

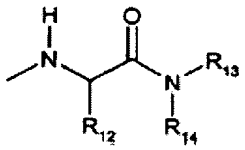
wherein

M is a mono- or di-valent metal;

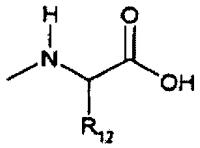
a is ½ or 1;

each of R_2, R_3, R_4 and R_5, independently, is hydrogen or an aliphatic group, or (R_2 or R_3) and (R_4 or R_5), collectively, form a C_4-C_7cycloalkyl;

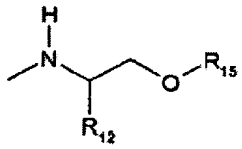
A is of the formula (Ia), (Ib), (Ic), (Id) or (Ie)



(Ia)

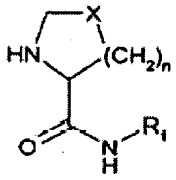


(Ib)



(Ic)

(Id)



(Ie)

wherein

R_{12} is the side-chain of a natural or a non-natural alpha amino acid;

R_{13} and R_{14}, independently, represent hydrogen, or optionally substituted C_1-C_8alkyl, cycloalkyl, aryl, aryl(C_1-C_6alkyl), heterocyclic or heterocyclic(C_1-C_6alkyl);

R_{15} is hydrogen, C_1-C_6alkyl or an acyl group;

X is $-CH_2-$, -S-, ,-CH(OH)-, -CH(OR)-, -CH(SH)-, -CH(SR)-, $-CF_2-$, -C=N(OR)- or -CH(F)-, wherein R is alkyl;

R_1 is aryl or heteroaryl; and

n is 0-3, provided that when n is 0, X is $-CH_2-$;

or a prodrug thereof, optionally together with a second therapeutical agent, in the manufacture of a medicament method for treating and/or preventing an infectious disorder.

19. (new) The crystalline salt of Claim 5,

wherein

a is ½;and

M is Ca, Zn or Mg.